WESTSIDE HIGH SCHOOL

Level Up: RISE to Your Potential

24-25 Lesson Plan Template Teacher: Nkechi Chuke-Oweina Subject: Geometry Prep

Week of: DATE	**Monday** **January 27, 2025**	**Tuesday** **January 28, 2025**	**Wed./Thurs.** **January 29 & 30, 2025**	**Friday** **January 31, 2025**
TEKS	Various	Various	GEOM.9A	GEOM.9A
Learning Objective	SWBAT evaluate and increase their understanding of triangle similarity concepts with review questions.	SWBAT demonstrate triangle similarity concepts mastery on the unit assessment.	SWBAT determine the lengths of sides and measures of angles in a right triangle by applying the sine ratio to solve problems.	SWBAT determine the lengths of sides and measures of angles in a right triangle by applying the cosine ratio to solve problems.
Higher Order Thinking Questions	How do proportions represent corresponding sides of triangles?	How do proportions represent triangle similarity?	How does the sine ratio relate the angles of a right triangle to the lengths of its sides?	How can cosine ratio and its inverse be used to calculate unknown sides and angles of right triangles?
Agenda	1. Do Now 2. Lesson – Test Review Questions - Guided Practice - Partner Practice	1. Unit Assessment - Independent Practice 2. Make up missing assignments	1. Do Now 2. Lesson – Give Me A Sine - Introduce trigonometry and the trigonometric ratios.	1. Do Now 2. Lesson – Don't Cosine - Learn about the cosine ratio. - Learn how to find the inverse of cosine ratio.

	3. DOL – Independent Practice		- Learn more about the sine ratio. - Learn how to find the inverse of sine ratio. - Application of the sine ratio - Practice solving problems involving sine ratio. 3. DOL- Independent Practice	- Application of the cosine ratio - Learn the relationship between sine and cosine. - Practice solving problems involving cosine ratio. 3. DOL- Independent Practice
Demonstration of Learning	Given a set of review questions, students will correctly apply triangle similarity concepts in at least 80% of questions.	Given assessment questions, students will correctly apply triangle similarity concepts in at least 80% of questions.	Given 5 problems, students will correctly determine the lengths of sides and measures of angles in a right triangle by applying the sine ratio to solve problems in 4 of 5 questions.	Given 5 problems, students will correctly determine the lengths of sides and measures of angles in a right triangle by applying the cosine ratio to solve problems in 4 of 5 questions.
Intervention & Extension	Completed notes for the unit posted on canvas. Video notes posted on canvas. Activity to practice concepts learned during the class.	Completed notes for the unit posted on canvas. Video notes posted on canvas. Activity to practice concepts learned during the class.	Completed notes for the unit posted on canvas. Video notes posted on canvas. Activity to practice concepts learned during the class.	Completed notes for the unit posted on canvas. Video notes posted on canvas. Activity to practice concepts learned during the class.
Resources	straightedge, blank paper, whiteboard, response cards, slide deck,	straightedge, blank paper, whiteboard, response cards, slide deck, student activity pages	straightedge, blank paper, whiteboard, response cards, slide deck, student activity pages	straightedge, compass, blank paper, whiteboard, response cards, slide deck, student activity

	student activity pages			pages